IN THE CLAIMS:

Claims 1-9 have been amended herein. All of the pending claims 1 through 9 are presented below. This listing of claims will replace all prior versions and listings in the application. Please enter these claims as amended.

- 1. (Currently Amended) A liquid solder jet apparatus for depositing a stream of liquid solder droplets on selected bond pads of at least one semiconductor die of a substrate having a surface having a plurality of locations of contact pads thereon extending throughout—said the surface, each location of said the plurality of locations on—said the surface having a start point and an endpoint, comprising:
- a continuous stream generator for producing a stream of liquid metal solder droplets, said the liquid metal solder droplets having a uniform size within a consistent predetermined range, the consistent predetermined range of uniform size metal solder droplets being within-the a size of the selected bond pads of-said the at least one of-said the semiconductor die and-said the contact pads of-said the substrate;
- a stream director for selectively directing-said the stream of liquid metal solder droplets after being produced by-said the continuous stream generator onto-said the selected bond pads of-said the at least one semiconductor die of said the substrate, said the stream director comprising a raster scanner scanning-said the stream of liquid metal solder droplets, said the raster scanner including:
 - an electrical charge generator for charging at least a portion of said the liquid metal solder droplets of stream of liquid metal solder droplets with an electrical charge;
 - a stream blanking device for intermittently blanking at least some of-said the liquid metal solder droplets of-said the stream of liquid metal solder droplets; and an electrically charged droplet deflector for deflecting at least one electrically charged liquid metal solder droplet of-said the stream of liquid metal solder droplets in a first direction and a second direction for deposition at a location of-said the

plurality of locations extending throughout-said the surface of-said the substrate when-said the substrate remains stationary;

a reservoir for holding liquid metal solder;

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- a vibrator for causing formation of said the stream of liquid metal solder droplets; and a temperature controller connected to said the reservoir for maintaining said the liquid metal solder in a liquid state.
- (Currently Amended) The apparatus according to claim 1, wherein-said the continuous stream generator further comprises:
 a pressure inducer; and
 the vibrator comprises a vibrator connected to-said the pressure inducer for causing formation of said the stream of liquid metal solder droplets in connection with-said the pressure inducer.
- 3. (Currently Amended) The apparatus according to claim 2, wherein said the pressure inducer comprises a piezoelectric crystal operating at a desired frequency.
- 4. (Currently Amended) The apparatus according to claim 2, wherein-said the vibrator comprises a piezoelectric crystal operating at a selected frequency to form liquid metal droplets having a size in the range of micron size droplets of a liquid metal solder.
- 5. (Currently Amended) The apparatus according to claim 1, wherein-said the continuous stream generator further-includes a solder jet nozzle having an aperture producing a consistent range of droplets of said the liquid metal solder for forming said the stream of liquid metal solder droplets.
- 6. (Currently Amended) The apparatus according to claim 5, wherein said the continuous stream generator further includes a solenoid connected to said the solder jet nozzle.

- 7. (Currently Amended) The apparatus according to claim 1, wherein-said the stream blanking device at least provides blanking of-said the at least some of said the stream of liquid metal solder droplets when said the stream of liquid metal solder droplets is positioned between-said the endpoint of a first location of said the plurality of locations extending throughout-said the surface of-said the substrate and said the surface of-said the substrate.
- 8. (Currently Amended) The apparatus according to claim 1, wherein-said the stream blanking device further-comprises:
- a deflector field device selectively deflecting at least one droplet of-said the stream of liquid metal solder droplets; and
- a droplet catcher catching-said the at least one droplet which has been deflected from-said the stream of liquid metal solder droplets prior to said the at least one droplet which has been deflected from-said the stream of liquid solder droplets being deposited on said at least one bond pad of said the at least one semiconductor die of said the substrate.
- 9. (Currently Amended) The apparatus according to claim 1, wherein-said the stream director includes a programmable direction controller for determining a direction of-said the stream of liquid metal solder droplets.